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USDOC FOR 3150/USFCS/OIO/CEENIS/MCOSTA  
USDOC FOR 532/OEE/MO'BRIEN

E.O. 12958: N/A

TAGS: [BEXP](#) [ETRD](#) [ETTC](#) [RS](#)

SUBJECT: EXTRANCHECK: POST-SHIPMENT VERIFICATION:  
RUSSIAN ACADEMY OF SCIENCES, SPACE RESEARCH INSTITUTE,  
MOSCOW, RUSSIA, LICENSE NO. D376356

REFTEL: USDOC 00113

11. Unauthorized disclosure of the information provided below is prohibited by Section 12C of the Export Administration Act.

12. Reftel requested a Post-shipment verification to determine the legitimacy and reliability of the end-user, Russian Academy of Sciences (RAS) Space Research Institute, Moscow, Russia. The company is listed on BIS license application D376356 as the ultimate consignee of twenty high dynamics range power amplifiers, model no: HMC486LP5E. These items are controlled for national security, anti-terrorism, missile technology and nuclear proliferation reasons under ECCN 3A001. The licensee is Hittite Microwave Corporation, 20 Alpha Road, Chelmsford, MA 01824.

13. On January 15, 2008, Export Control Attache Peter Liston and LES Natalya Shipitsina conducted the requested post-shipment verification with (RAS) Space Research Institute, 84/32 Profsoyuznaya st., Moscow, Russia. The export control team met with Alexander Kosov, Head of Laboratory.

14. The Russian Academy of Science (RAS), Space Research Institute is one of the leading organizations in the field of investigations of Outer Space, Solar System planets and other objects of the Universe. The Space Research Institute (IKI) is primarily in charge of long-range planning and elaboration of space research programs of which a considerable part is performed within the framework of international space research cooperation. The Space Research Institute takes part in the Federal Space Program that is being formed by the RAS Space Council and by the appropriate sections of this Council together with the Federal Space Agency (Roscosmos). The Space Research Institute of the Russian Academy of Science has cooperated in projects with Russia's Federal Space Agency (FSA), NASA and European Space Agency (ESA).

15. The Moscow ECO Team was shown reftel subject twenty (20) model no. HMC486LP5E high dynamic range GAAS PHEMT MMIC 2 watt power amplifiers in a secure lab with limited access. The amplifiers will be used for developing and testing in miniature transponders until a space-qualified transponder is ready for launch circa 2009 to the Russian Mars satellite Phobos. The project is intended to measure frequency

shifts. RAS/IKI presented the ECO Team one (1) prototype transponder with the amplifier set inside that they have in testing mode. The remaining 19 amplifiers were stored in the lab and shown to the team.

¶6. The RAS/IKI lab utilizing the twenty (20) model no. HMC486LP5E high dynamic range GAAS PHEMT MMIC 2 watt power amplifiers is accessed by approximately 15 research scientists. There are no foreign national scientists or students having access to the lab or the amplifiers. The RAS/IKI is not involved in WMD, Missile Technology or Nuclear research.

¶7. Recommendations: Post recommends (RAS) Space Research Institute, Moscow, Russia as a reliable recipient of sensitive U.S. origin commodities.  
(FCS MOSCOW/SBOZEK/PLISTON)  
BURNS